6/20/00

COMPUTED BY: C.M.W DATE: AUGUST 14, 2004
CHECKED BY: T.A.M. DATE: AUGUST 14, 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-977A	3-E

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & UNDER)

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300	375	450	600	750	900	1050	1200
-LREV- 35+90 LT	129		504.04	502.65										
-LREV- 35+90 LT	129	130		502.65	502.70			18.0						
-LREV- 35+90 CL	130		503.51	502.70										
-LREV- 35+90 LT	128	131		479.4	483.05									
-LREV- 36+26 LT	131		485.50	483.05										
-LREV- 36+26 LT	131	132		483.05	485.60						170.4 (CL IV) (750)			
-LREV- 36+26 LT	131	133		483.05	483.45									
-LREV- 36+26 LT	133		485.70	483.45										
-LREV- 36+26 LT	133	134		483.05	491.20									
-LREV- 37+05 LT	134		493.50	491.20										
-LREV- 37+05 LT	134	135		491.20	497.40									
-LREV- 37+33 LT	135		499.00	497.40										
-LREV- 37+33 LT	135	136		497.40	501.27									
-LREV- 37+53 LT	136		502.08	501.27										
-LREV- 37+33 LT	135	137		497.40	500.58					31.2				
-LREV- 37+33 CL	137		502.03	500.58										
-LREV- 37+33 RT	139	138		500.58	501.79			78.0						
-LREV- 37+33 RT	138		502.58	501.79										
-LREV- 36+55 RT	139		503.15	502.23										
-LREV- 36+55 RT	139	140		502.23	501.00									
-LREV- 37+04 RT	141	142		495.00	485.60									
-LREV- 37+60 RT	143	144		485.60	491.60									
-LREV- 38+71 CL	145		503.38	501.93										
-LREV- 37+33 CL	137	145		500.58	501.93					139.2				
-LREV- 38+71 RT	145	146		501.93	502.21			24.0						
-LREV- 38+71 RT	146		503.02	502.21										
-LREV- 40+57 RT	147			–	–									
-Y3- 10+49 CL	149			478.79	503.15					21.6				
-Y3- 11+25 RT	151			485.00	484.00									
-Y3- 11+60 LT	152	153		486.40	486.20				12.0					
SHEET TOTAL								120.0	12.0	192.0				
											170.4 (CL IV) (750)			

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 / 1.63	400 / 1.63	450 / 1.63	600 / 1.63	600 / 1.63 (UNCOATED)	2.01	800 / 2.01	800	900 / 2.01	900	1000 / 2.77	1000	1200 / 2.77	1200 / 3.51
-LREV- 35+90 LT (129–)														
-LREV- 35+90 LT (129–130)														
-LREV- 35+90 CL (130–)														
-LREV- 35+90 LT (128–131)							37.2							
-LREV- 36+26 LT (131–)														
-LREV- 36+26 LT (131–132)														
-LREV- 36+26 LT (131–133)							4.8							
-LREV- 36+26 LT (133–)														
-LREV- 36+26 LT (133–134)							78.0							
-LREV- 37+05 LT (134–)														
-LREV- 37+05 LT (134–135)							30.0							
-LREV- 37+33 LT (135–)														
-LREV- 37+33 LT (135–136)		22.8												
-LREV- 37+53 LT (136–)														
-LREV- 37+33 LT (135–137)														
-LREV- 37+33 CL (137–)														
-LREV- 37+33 RT (139–138)														
-LREV- 37+33 RT (138–)														
-LREV- 36+55 RT (139–)														
-LREV- 36+55 RT (139–140)		10.8												
-LREV- 37+04 RT (141–142)			56.4											
-LREV- 37+60 RT (143–144)			20.4											
-LREV- 38+71 CL (145–)														
-LREV- 37+33 CL (137–145)														
-LREV- 38+71 RT (145–146)														
-LREV- 38+71 RT (146–)														
-LREV- 40+57 RT (147–)														
-Y3- 10+49 CL (149–)														
-Y3- 11+25 RT (151–)														10.8
-Y3- 11+60 LT (152–153)														
SHEET TOTAL		33.6	76.8				150.0							10.8

STATION	150mm PERFORATED HDPE PIPE	600 BORE AND JACK	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	900mm SIDE DRAIN PIPE	MODIFIED CONCRETE FLUME (SEE SHEET 2-P)	ENDWALLS STD. 838.01 OR STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. (CM)	C.S.P. (CM)	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00	B 3.00 AND ABOVE	375 x 375 x 375 TEE	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G
-LREV- 35+90 LT (129–)										1							
-LREV- 35+90 LT (129–130)																	
-LREV- 35+90 CL (130–)										1							
-LREV- 35+90 LT (128–131)																	
-LREV- 36+26 LT (131–)										1	0.95						
-LREV- 36+26 LT (131–132)																	
-LREV- 36+26 LT (131–133)																	
-LREV- 36+26 LT (133–)										1	0.75						
-LREV- 36+26 LT (133–134)																	
-LREV- 37+05 LT (134–)										1	0.80						
-LREV- 37+05 LT (134–135)																	
-LREV- 37+33 LT (135–)										1	0.10						
-LREV- 37+33 LT (135–136)																	
-LREV- 37+53 LT (136–)										1							
-LREV- 37+33 LT (135–137)																	
-LREV- 37+33 CL (137–)										1							
-LREV- 37+33 RT (139–138)																	
-LREV- 37+33 RT (138–)										1							
-LREV- 36+55 RT (139–)										1							
-LREV- 36+55 RT (139–140)																	
-LREV- 37+04 RT (141–142)									1.7								
-LREV- 37+60 RT (143–144)									1.7								
-LREV- 38+71 CL (145–)										1							
-LREV- 37+33 CL (137–145)																	
-LREV- 38+71 RT (145–146)																	
-LREV- 38+71 RT (146–)										1							
-LREV- 40+57 RT (147–)							1										
-Y3- 10+49 CL (149–)																	
-Y3- 11+25 RT (151–)																	
-Y3- 11+60 LT (152–153)																	
SHEET TOTAL							1		3.4	12	2.60						

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH TWO GRATES STD. 840.20	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24
-LREV- 35+90 LT (129–)				1		1				
-LREV- 35+90 CL (130–)				1				1		
-LREV- 36+26 LT (131–)			1					1		
-LREV- 36+26 LT (133–)			1					1		
-LREV- 37+05 LT (134–)			1					1		
-LREV- 37+33 LT (135–)			1					1		
-LREV- 37+53 LT (136–)				1				1		
-LREV- 37+33 CL (137–)			1					1		
-LREV- 37+33 RT (138–)				1					1	
-LREV- 36+55 RT (139–)				1		1				
-LREV- 38+71 CL (145–)			1					1		
-LREV- 38+71 RT (146–)				1				1		
SHEET TOTAL			6	6		2		9	1	

STATION	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H. STD. 840.51, 840.52, OR 840.53	M.H. FRAME & COVER STD. 840.54	O.T.C.B. STD. 840.04 OR 840.05	SPRING BOX STD. 840.41	150mm C.S. Pipe, 1.63mm THICK (SPRING BOX)	PERFORATED 150mm C.S. Pipe STUB. 1.63mm THICK	M.D.I. FRAME WITH TWO GRATES STD. 840.33 (ANGLE VANE)	900 x 900 x 900mm PERF C.S.P. TEE RISER 2.01mm THICK	800 x 800 x 800mm PERF C.S.P. TEE RISER 2.01mm THICK	600 x 600 x 600mm PERF C.S.P. TEE RISER 1.63mm THICK	450 x 450 x 450mm PERF C.S.P. TEE RISER 1.63mm THICK	SLUISE GATE (FOR 600 C.S.P.)	CONC. COLLARS CL. "A" CM STD 840.72	CONC. & BRICK PIPE PLUG C.M. STD. 840.71	ADJUST EXISTING D.I.	PIPE REMOVAL (LINEAR METER)	C.S. ELBOWS NO.	SIZE	REMARKS
-LREV- 36+26 LT (131–132)																					METHOD "B" INSTALLATION
-LREV- 36+55 RT (139–140)																			2	450	
-LREV- 37+04 RT (141–142)																			1	450	"L" HEADWALL (STD. 838.05 OR 838.15)
-LREV- 37+60 RT (143–144)																			2	450	"L" HEADWALL (STD. 838.05 OR 838.15)
-Y3- 10+49 CL (149–)																		21.6			
-Y3- 11+60 LT (152–153)																		12.0			
SHEET TOTAL																		33.6	5@	450	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I. (N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUCTION BOX

$$$$$$SYSTIME$$$$ $$$$$$DGN$$$$$$$$$$$$$$$$ $$$$$$USERNAME$$$$

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